

Appl. No. 09/851,264
Amtd. dated October 8, 2003
Reply to Office Action of July 8, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listing of claims in the application:

Listing of Claims

26. Cancelled.

27. Cancelled.

28. Cancelled.

29. Cancelled.

30. Cancelled.

31. Cancelled.

32. Cancelled.

33. Cancelled.

34. (Currently Amended) A method for the dehydrocyclization and/or isomerization of an aliphatic hydrocarbon comprising contacting the hydrocarbon at a temperature in the range of from 370°C to 600°C with a catalyst so as to convert at least part of the hydrocarbon into an aromatic hydrocarbon, the catalyst comprising a Group VIII metal and gallium-containing LTL zeolite formed of cylindrical crystallites having basal planes so shaped that the ratio of axial length of curved cylindrical surface to the overall axial length of the crystallite is greater than 0.9, the length of the crystallites is greater than 0.9, the mean diameter of the crystallites is in

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the range of at least 0.05 microns up to less than 1.5 microns and the mean length of the crystallites is less than 0.6 microns.

36. (Original) The method of claim 34, wherein the mean diameter of the crystallites ranges from 0.3 to less than 1.5 microns.

37. (Original) The method of claim 36, wherein said diameter ranges from 0.4 to 1.0 microns.

38. (Original) The method of claim 34, wherein the mean length of the crystallites ranges from 0.1 to less than 0.6 microns.

39. (Original) The method of claim 38, wherein said length ranges from 0.1 to 0.3 microns.

40. (Original) The method of claim 34, wherein the aspect ratio of length to diameter of said crystallites is at most 0.5.

41. (Currently Amended) The method of claim 34, wherein the mean diameter of said crystallites ranges from 0.3 to less than 1.5 microns and the mean length of said crystallites ranges from 0.1 to less than 0.6 60 microns.

42. (Original) The method of claim 34, wherein said zeolite contains less than 0.2% by weight alumina.